

**TAKING
FLIGHT SIMULATION
TO GREATER HEIGHTS.**

FRASCA
INTERNATIONAL, INC.



**Leaders
in cost-effective
simulation.**

Frasca International: A Leader In Flight Simulation.

A leader... setting the highest standards... establishing a precedence... paving the way.



Simulator Production Line

Since its beginning in 1958, Frasca International, Inc., has helped revolutionize flight training through the development of cost-effective flight simulators. And now, Frasca International is at the forefront of simulated flight training.



UH-1H Simulator

UH-1H Instrument Panel



Frasca International... Yesterday and Today.

Rudy Frasca always had a deep interest in simulated IFR flight training devices; and he held a firm belief that hard work and ambition always pay off.

While employed by the University of Illinois Aviation Psychology Department, he was involved in human engineering research as it related to flight training devices. And it was during this period, working evenings and weekends, that he developed the first Frasca simulator.

Soon after, what had begun as a small, personal project had developed into a thriving new company dedicated to the design and manufacture of cost-effective flight simulators.

Today, Frasca International, Inc., is a leader in the field of flight simulation, manufacturing a wide range of flight simulators, from simple flight demonstrators to advanced military units. Our simulators are being used throughout the world to train and educate pilots in an economical and efficient manner. At Frasca International, we design and build simulators for fixed wing or rotorcraft, single or multi-engine and reciprocating or jet aircraft.

A privately-held company, our facilities are located in Champaign, Illinois, and at Frasca Field in Urbana, Illinois, where we have the necessary space to accommodate our ever-expanding research and development needs. Because of our proximity to the University of Illinois campus, we also benefit by having continuous access to the extensive knowledge, experience and human resources available there.

Our Champaign headquarters consists of a four-building complex devoted to administrative, engineering, and manufacturing functions. At Frasca Field in Urbana, we have additional storage space to fill our ever-increasing manufacturing needs. There also is a 20 acre tract of land on Frasca Field that has been designated for the inevitable future expansion of Frasca International.



While Frasca International has experienced steady growth over the years, some things have remained unchanged...namely, our company philosophy. At Frasca International, Inc., we have always been, and still are, committed to designing simulators which maximize transfer of learning in the most cost-effective manner.

It is this dedication to the transfer of learning that has been the biggest reason for our success.

Cessna Citation II instrument panel



An International Reputation for Excellence.

The Frasca name has become widely recognized both nationally and internationally. Since 1958, we have built over 500 cost-effective simulators for a wide variety of clients. Our customers include governments, military organizations, universities, airlines, fleet operators, and flight schools in over 40 countries throughout the world.

Product. At Frasca International, our simulators are designed to train pilots better – maximizing the transfer of learning. Using state-of-the-art technology, we develop simulators that are designed and built to provide optimum performance. We are able to achieve such high performance due to our extensive engineering capabilities and our own computer generated simulation (CGS) technology. By providing a better simulator and maximizing the transfer of learning, we give pilots a higher quality of training.



Pilatus PC-7 (Turbo Trainer) Simulator

Price. Through cost-effective techniques, we are able to maintain low production costs. In addition, the advanced technology of our simulators provides the same features found on other manufacturers' simulators at a fraction of the cost. This enables us to offer our simulators at a significantly lower cost than that of the competition.

Training value. Frasca simulators provide the highest training value for many reasons. They cost less to operate than the actual aircraft and, at the same time, are more versatile. They allow for the introduction of training scenarios that otherwise would not be possible. This, in turn, increases the overall level of safety because a majority of the training is completed in the simulator and not in the aircraft. Not only is the safety factor enhanced, but the transfer of learning is increased as well.

Support. The Frasca team of professionals plays a crucial role in our delivery of top quality simulators. Without them, it would not be possible. Our staff has the know-how that allows our simulators to be used to better train pilots for less. We use our experience to provide you with the after-

sales support and training that helps you get the most out of your Frasca simulator.

But most importantly, these companies, military organizations, and schools have selected Frasca because they know they are receiving the best in **cost-effective simulators**.



Setting The Highest Standards for Cost-Effective Flight Simulation.

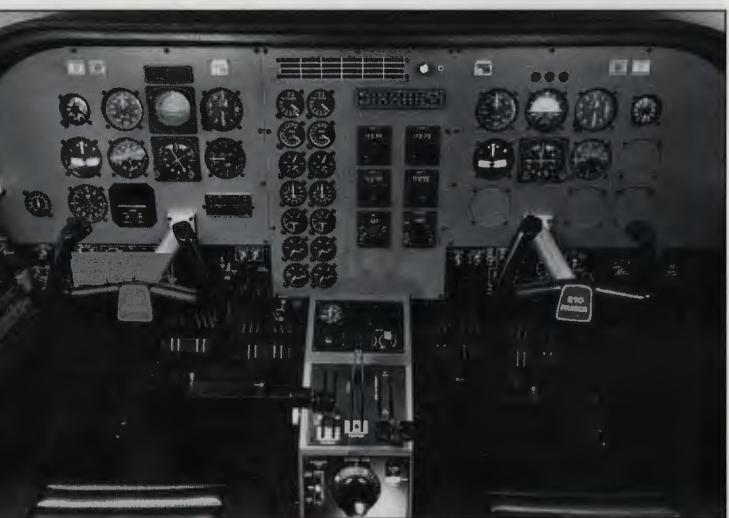
At Frasca International, our state-of-the-art simulators enable us to provide our customers with highly authentic and reliable duplication of the performance and characteristics of actual aircraft.

Our staff of engineers maintains production lines of several of Frasca's more popular designs. With constant production of these units and control over all aspects of the manufacture of the flight simulators – from the concept, design, engineering, training, installation and customer support, to maintenance in the field – we can ensure the highest quality in every simulator we produce. And we can deliver these units with very short lead times – still keeping costs to a minimum.

In addition, Frasca simulators have a well-deserved reputation for long life and easy maintenance. It is estimated that over 90 percent of the simulators built since the company's inception in 1958 are still in operation today.



DC-9 cockpit



Frasca 242-T

Frasca 141



Achievements in Flight Simulation.

The following are just a few of our achievements made over the years. It is this kind of innovation which keeps Frasca a world leader in the manufacturing of cost-effective flight simulators.

- Frasca was an innovator in using the cue and response transfer of learning concept.
- Frasca designed and marketed one of the first low-cost general aviation simulators.
- Frasca simulators were integral to the first general aviation school receiving part 141 approval in a private pilot program.
- Frasca was a leader in the development and use of multi-microprocessor architecture in simulators.
- Frasca simulators were some of the first ones to receive part 135 approvals.
- Frasca was one of the first to cooperate in the design of a simulator-use syllabus in conjunction with a major university (1967); we are presently cooperating with other colleges on similar projects.
- Frasca was a leader in the development of low-cost turbojets, as well as turboprop simulators.
- Frasca was an innovator in the integration of ultra-high resolution visual systems and simulators.



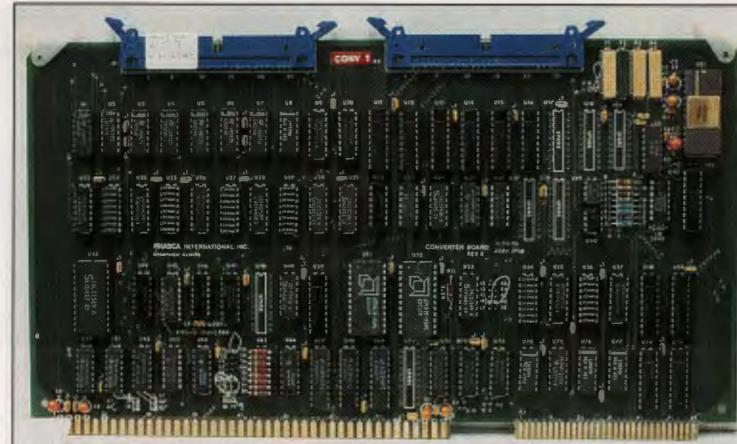
Products Backed By The Finest Technology.

Frasca International's production simulators are designed to represent a variety of aircraft types, from a single engine, fixed wing aircraft with our Model 141, to a twin engine turboprop with our Model 242-T.



Custom simulators have played an increasing role in our business within the last ten years. In this period we have duplicated a wide variety of aircraft: from a Bulldog trainer to a DC-9, and from a Hughes 300 to a Sikorsky HH-53.

Regardless of the type of simulator, all are backed by years of research and testing and the most advanced technology including Advanced Computer Generated Simulation (CGS).



Advanced Computer Generated Simulation.

Frasca's Computer Generated Simulation (CGS) technology is an innovative approach to simulation. It results in a user-friendly system requiring minimal training to operate. CGS technology is the reason Frasca simulators are known for their high reliability and faithful reproduction of aircraft performance and characteristics.

A significant advantage of CGS technology is its highly flexible, and expandable nature. It is designed to accommodate additional processors and input/output channels should a future upgrade require them.

In addition to its high reliability, the modular nature of CGS provides for easy maintenance, short equipment down-time, expandability, and minimal spares

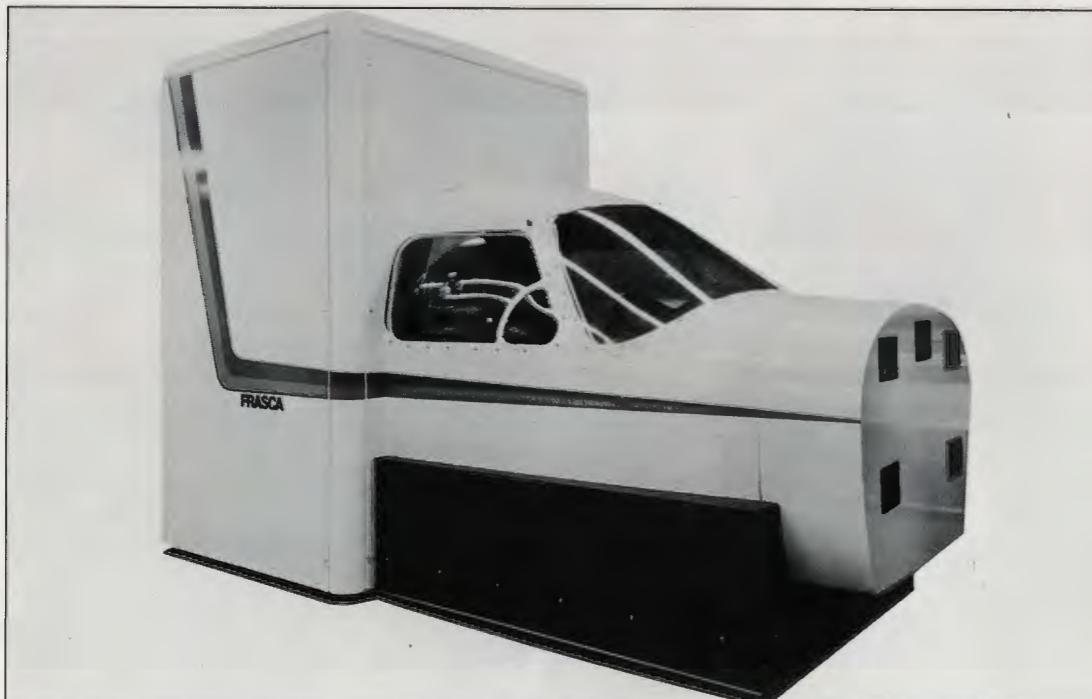
requirements. The result is highly cost-effective simulation.

Simulator Upgrades.

Because of their modular nature, hardware and software components of any of our CGS simulators can be used to upgrade older technology simulators. Due to costs associated with maintaining the older analog, digital or mechanical technologies of these simulators, it is cost-effective to upgrade using CGS technology.

But more importantly, our simulator upgrades can provide advanced features that allow for additional and more realistic training.

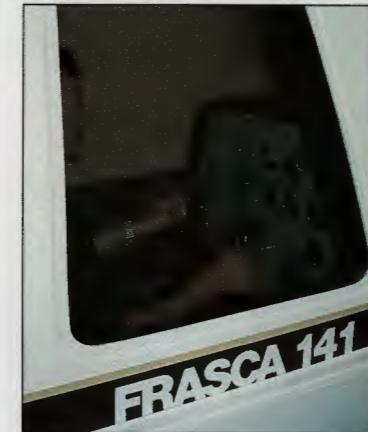
Simulator With Instructor's Cabin



Quality Service In Every Corner Of The World.

Our customer base covers a wide area: from universities, corporations, research institutions and flight schools, to major airlines and military organizations. But whomever the client we are serving, our goal remains the same: to provide a top-quality simulator that is as efficient as it is cost-effective.

Our customers benefit from Frasca simulators in many ways. They are used as primary and advanced simulators to teach flying techniques and procedures, including emergency procedures. They also help the instructors to improve their teaching effectiveness and efficiency.



Military organizations use Frasca simulators in the same manner, but go even further with their instruction. Our simulators are used for mission rehearsal, tactical exercises, cross-training and emergency procedures. Because of the highly accurate replication of actual aircraft characteristics, our simulators also reduce the number of training hours pilots have to spend in the real aircraft – time that can be used for more advanced training or actual missions.

Overall, our simulators are used to maximize the transfer of learning – training pilots to become better skilled and qualified in their profession.



Frasca 142



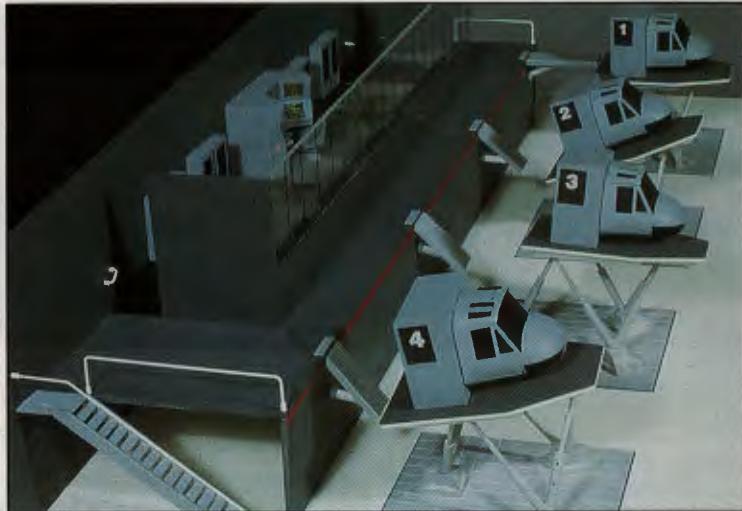
Hughes 300 Hover Simulator



Frasca International . . . Reaching Higher For You.

At Frasca International, we know that time, money, and service are important to you. That is why we remain committed to expanding the field of flight simulation by providing cost-effective, custom-designed flight simulators.

Piper Navajo Instrument Panel



Helicopter Simulator Complex

Through years of dedication and research, Frasca International has:

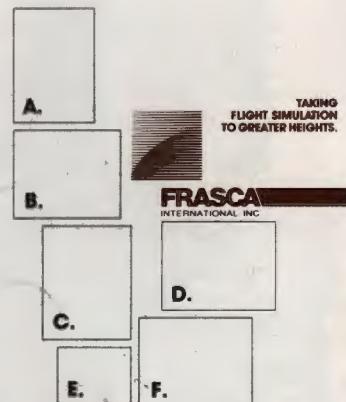
- Provided state-of-the-art flight simulation technology;
- revolutionized the entire area of flight training by significantly reducing required aircraft training time; and,
- improved air safety by providing the highest quality of flight training.

It is no wonder that Frasca International has developed an international reputation for continually providing the most technologically advanced, cost-effective flight simulators.

Frasca International . . . always reaching . . . always improving . . . always growing . . . taking flight simulation to greater heights. We truly are the leader in cost-effective flight simulation.



Simulator In Engineering Laboratory



- A. Piper Navajo
- B. Sikorsky HH-53
- C. Pilatus PC-7
- D. MBB BO-105 (exterior)
- E. Visual System
- F. Piper Navajo

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